Embedded Linux Z2HV2

Assignment 1 - Bash

Simple Phone Book Script

# Summary:

The goal of this Assignment is to practice the basics of Shell Scripting Usage and Capabilities.

# Requirements:

Create a shell script that creates a phonebook on your system that contains a list of your contact names and numbers, with these features:

- Script can take options, e.g. "phonebook -v"

- When running the script without options, it will print the phonebook available options.

- Normally there is a “.phonebookDB.txt” which ur script creates to store the names and numbers.

**Bonus1:** make the database inside the script itself (meaning the script would edit itself while running), that would make your script highly portable.

**Bonus2:** a single name can have multiple phone numbers within the same database entry.

**The available options are:**

- Insert new contact name and number, with the option "-i"

- View all saved contacts details, with the option "-v"

- Search by contact name, with the option "-s"

- Delete all records, with "-e"

- Delete only one contact name, with "-d"

**Common bugs you need to take care of:**

- When moving the script from one folder to the other make sure your script points to a single location for the database file (think where should an application keep its data!?) **Hint:** /etc/phonebook

- Your script must check if a database file exist before trying to create a new one

# Test Scenarios:

- I will normally try to make your script break or behave incorrectly so use defensive coding strategy to counter wrong user inputs

- The inputs will contain names with similarities ( e.g. “ahmed ali”, “ali ahmed”, “Ali Ali” etc)(which to delete ?!)

# How to deliver your work:

Create a Repository on your GitHub account and name it Embedded\_Linux\_Z2H

Create a folder within this repo called assignement\_1\_bash

Create your script in that folder and Name your script: phonebook.sh

Commit and push your changes to the repo

Export your script to .pdf format

Submit A link to your “Repository” and both files “phonebook.sh” and “phonebook.sh.pdf” to the Assignment on google Classroom